

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	WENU 402
Doc ID	1512691

All Electric Logs Run

BOREHOLE COMPENSATED SONIC LOG
BOREHOLE VOLUME CALIPER LOG
COMPENSATED NEUTRON PEL DENSITY MICRO LOG.
COMPOSITE LOG
MICROLOG
PHASED INDUCTION SHALLOW FOCUSE SP LOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	WENU 402
Doc ID	1512691

Tops

Name	Top	Datum
HEEBNER	4039	.
LANSING	4145	.
MARMATON	4707	.
ATOKA	5057	.
MORROW	5211	.
TOP WENU ZONE	5368	.
CHESTER LIME	5417	.
CHESTER LIME BASE	5461	.
ST GENEVIEVE	5485	.

MBC WELL LOGGING LLC

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: WENU 402 AFE: 64676 MERIT ENERGY CO LLC
 Well Id: API 15-081-22210-00-00
 Location: HASKELL COUNTY, KANSAS USA
 License Number: 32446
 Spud Date: 12/15/2019
 Surface Coordinates: SHL 1063'fel- 1065'fml-SEC 04-T28S-R34W
 LAT: 37.6376340 LONG: -101.0387200
 Bottom Hole Coordinates: HLS-DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC- GR TO SFC'
 Ground Elevation (ft): 3077' K.B. Elevation (ft): 3089'
 Logged Interval (ft): 4000' To: 5600' Total Depth (ft): ELOG: 5600'
 Formation: MORROW
 Type of Drilling Fluid: MUDCO JUSTIN WHITING CELL (620)-214-3630
 Region: EUBANK NORTH
 Drilling Completed: 12/17/2019

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com













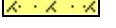






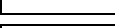



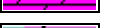




OPERATOR

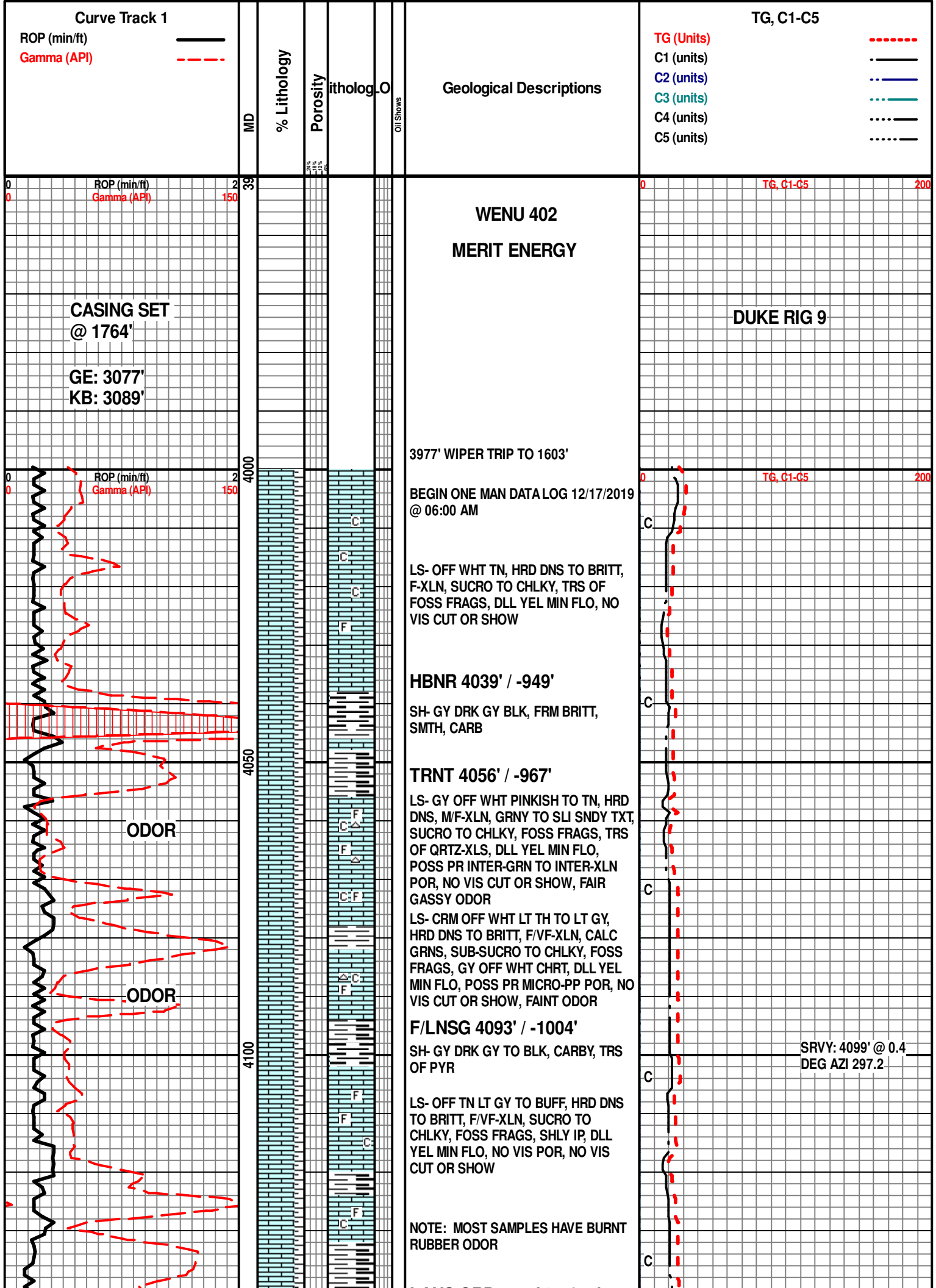
Company: MERIT ENERGY CO LLC
 Address: ATTN KRYSTIN ROBINSON GEOLOGY
 13727 NOEL RD STE 1200
 DALLAS, TEXAS 75240

MUDLOGGER

Name: TROY FOWLER
 Company: MBC WELL LOGGING LLC
 Address: 21156 RD 22
 MEADE, KANSAS 67864

ROCK TYPES

	Anhy		Ls & ooids		Sndy sh		Stgensndy-arkos
	Brec		Oolitic ls -1		Sltst-1		Sndy ool ls
	Cht		Stgensndy-arkos		Sltly-shale		Sndy-ls-1
	Coal		New ls-1		Lmy ss-1		Calc shale
	Congl		Carby shale		Arkosic snd		Granitewash
	Shly dolomite		Lmy carby sh-3		Ss		Ls shly-b
	Chty sndy shly dol		Carb sh		Grn sh strk		Poor sortd ss
	New symbol		Gyp		Grn mott gy sh		Snd-ls-sh
	Dolo new		Sltst		Lmy sh-2		
	New dolomite 20		Salt		Shale-1		
	Newdolo ls 2		Sndy sh--red		Red sh-1		



Curve Track 1

ROP (min/ft) ———
 Gamma (API) - - - - -

TG, C1-C5

TG (Units)
 C1 (units) ———
 C2 (units) - - - - -
 C3 (units)
 C4 (units)
 C5 (units)
 TG, C1-C5

MD
 % Lithology
 Porosity
 litholog-O
 Oil Shows

Geological Descriptions

**WENU 402
 MERIT ENERGY**

DUKE RIG 9

**CASING SET
 @ 1764'**

**GE: 3077'
 KB: 3089'**

3977' WIPER TRIP TO 1603'

BEGIN ONE MAN DATA LOG 12/17/2019
 @ 06:00 AM

LS- OFF WHT TN, HRD DNS TO BRITT,
 F-XLN, SUCRO TO CHLKY, TRS OF
 FOSS FRAGS, DLL YEL MIN FLO, NO
 VIS CUT OR SHOW

HBNR 4039' / -949'

SH- GY DRK GY BLK, FRM BRITT,
 SMTH, CARB

TRNT 4056' / -967'

LS- GY OFF WHT PINKISH TO TN, HRD
 DNS, M/F-XLN, GRNY TO SLI SNDY TXT,
 SUCRO TO CHLKY, FOSS FRAGS, TRS
 OF QRTZ-XLS, DLL YEL MIN FLO,
 POSS PR INTER-GRN TO INTER-XLN
 POR, NO VIS CUT OR SHOW, FAIR
 GASSY ODOR

ODOR

LS- CRM OFF WHT LT TH TO LT GY,
 HRD DNS TO BRITT, F/VF-XLN, CALC
 GRNS, SUB-SUCRO TO CHLKY, FOSS
 FRAGS, GY OFF WHT CHRT, DLL YEL
 MIN FLO, POSS PR MICRO-PP POR, NO
 VIS CUT OR SHOW, FAINT ODOR

ODOR

F/LNSG 4093' / -1004'

SH- GY DRK GY TO BLK, CARBY, TRS
 OF PYR

SRVY: 4099' @ 0.4
 DEG AZI 297.2

LS- OFF TN LT GY TO BUFF, HRD DNS
 TO BRITT, F/VF-XLN, SUCRO TO
 CHLKY, FOSS FRAGS, SHLY IP, DLL
 YEL MIN FLO, NO VIS POR, NO VIS
 CUT OR SHOW

NOTE: MOST SAMPLES HAVE BURNT
 RUBBER ODOR

LS- GY OFF WHT TN, HRD DNS TO BRITT, F-XLN TO AHREN TO SNDY TXT, CHLKY, POSS MICRO-OOL IP, F/TRS OF LT GY VIT CHRT, TRS OF CALC-XLS, TRS OF QRTZ-XLS, DLL YEL MIN FLO, POSS PR INTER-GRN TO INTER-XLN POR, NO VIS CUT R SHOW, V/ FAINT ODOR

LS- GY OFF WHT TO TN, HRD DNS, F/VF-XLN, SUCRO TO CHLKY, F/TRS OF GY OFF WHT CHRT, PALE DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, NO ODOR

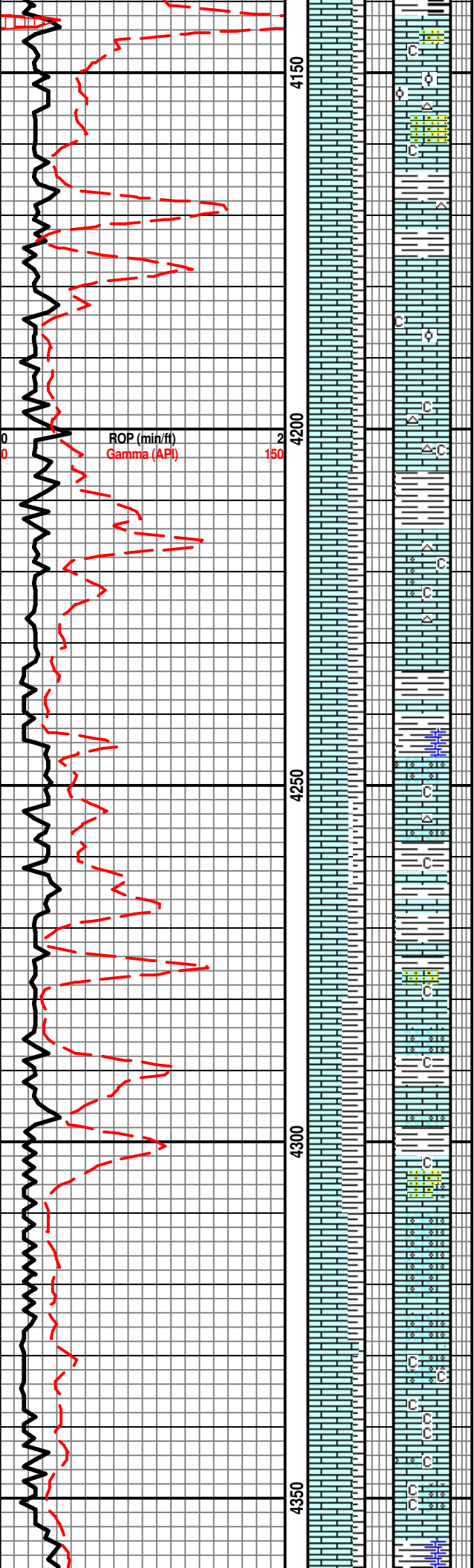
LS- OFF WHT LT TN TO GY, HRD DNS, F-XLN, SUCRO TO CHLKY, TRS OF FOSS FRAG, F/TRS OF OOL FR/SORTD, TRS OF GY TN CHRT, SME QRTX-XLS, SHLY IP DISS, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, NO DET ODOR

LS-GY OFF WHT LT TN TO BUFF, HRD DNS TO BRITT, F/VF-XLN, CHLK, TRS OF GY OFF WHT VIT CHRT, PALE DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF GY TN TO MOTT, HRD DNS TO BRITT, F/XLN TO M/F-OOL PR SORTD, CHLKY, TRS OF GY OFF WHT CHRT, PALE DLL YEL MIN FLO, PR/FR OOLCASTIC POR, NO VIS CUT OR SHOW, NO ODOR

LS- CRM OFF WHT LT TN GY TO BUFF. HRD DNS TO BRITT, F/VF-XLN M/F-OOL PR SORTD TO SNDY IP, SUCRO TO V/CHLKY, TRS OF SFT OFF WHT CHLK, F/TS OF CRINOIDS, TRS OF CALC GRNS, F-TRS OF QTRZ-XLS, DLL YEL MIN FLO THRU, PR/FR OOLICATIC TO MICRO VUG POR IP, NO VIS CUT OR SHOW

LS- CRM OFF WHT LT GY, HRD BRITT, VF-XLN, V/CHLKY, ABNDT OFF WHT CHLK, F/TRS OF OOL PR SORT, PALE YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW



ROP (min/ft)
Gamma (API)

150

TG, C1-C5

200

SRVY: 4258' @ 1.2
DEG AZI 7.2

C

C

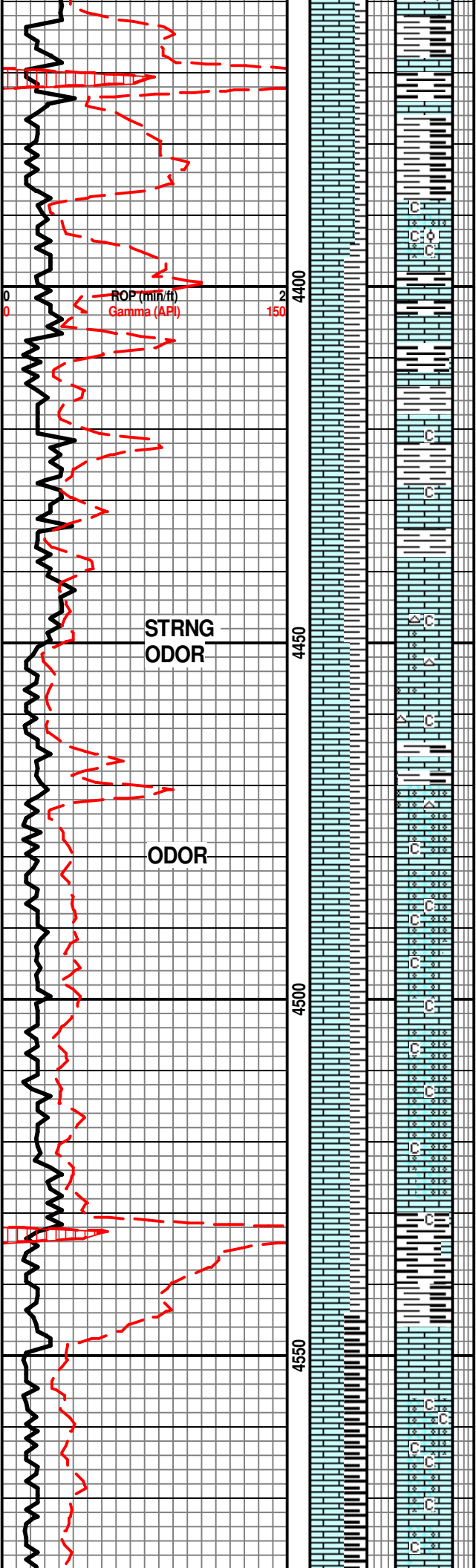
C

C

C

C

C



MNCRK 4363' / -1274'

SH- SFT BLK CARB, SMTH BLKY TO PLTY

LNSG G 4388' / -1298'

LS- CRM OFF WHT TO LT TN, HRD BRITT, F-XLN, V/CHLKY, TRS OF MICRO OOL TT PR SORTD, PALE DLL YEL MIN FLO, POSS PPR MICRO-VUG POR, NO VIS CUT OR SHOW, NO ODOR

B DRUM 4407' / -1318'

SH- GY DRK GY TO BLK, FRM BRITT, SMTH BLKY TO GRNY, CARBY IP TO CALC

LS- OFF WHT GY TN, HRD DNS TO BRITT, F-XLN, SUCRO TO V/CHLKY, TRS OF GY TN CHRT, F/TRS OF FOSS FRAGS, TRS OF PR SORTD OOL SCATT SME SHADOW, PALE YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, F/ODOR

LS- TN GY OFF WHT, HRD DNS, F-XLN TO M/F-OOL GRNS PR SORTD, CHLKY, TRS TO TN GY CHRT, SHADOW OOL IP, DLL YEL FLO, PR OOLICASTIC POR, NO VIS CUT OR SHOW, SLI F/ODOR

LS- TN GY OFF WHT TO MOTT, HRD DNS TO BRITT, F-XLN, SUB-SUCRO TO CHLKY, TRS OF OOL SME SHADOW, TRS OF TN CHRT SME W/ OOL, TRS OF FOSS FRAGS, DLL YEL MIN FLO, PR OOLICAST POR, NO VIS CUT OR SHOW, F/ODOR

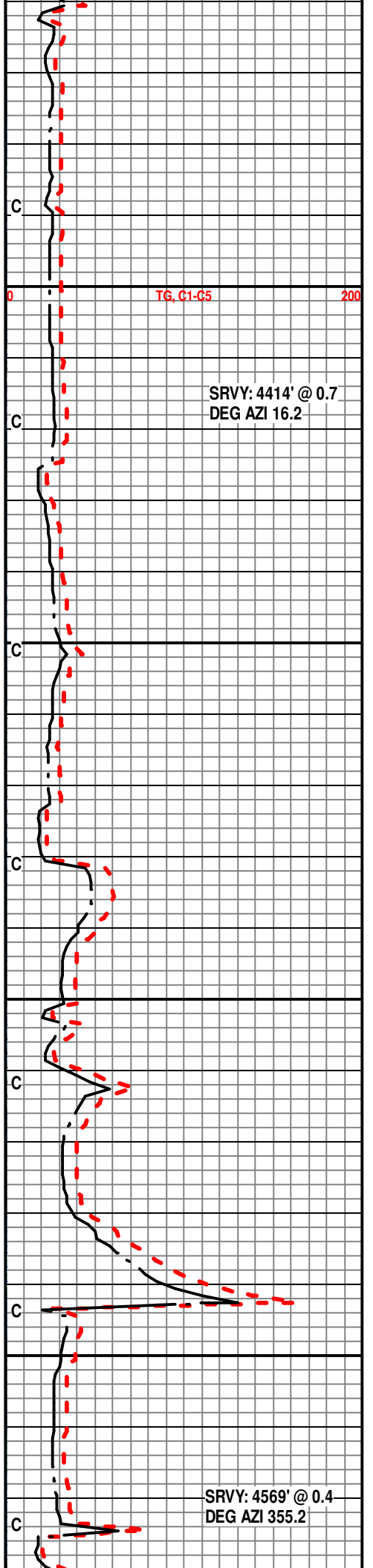
STRK 4532' / -1443'

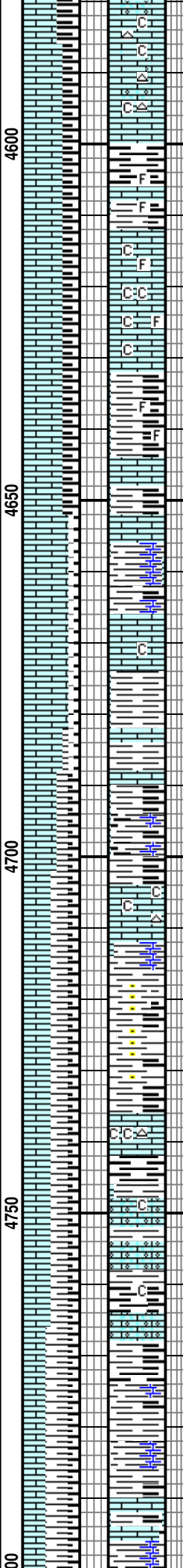
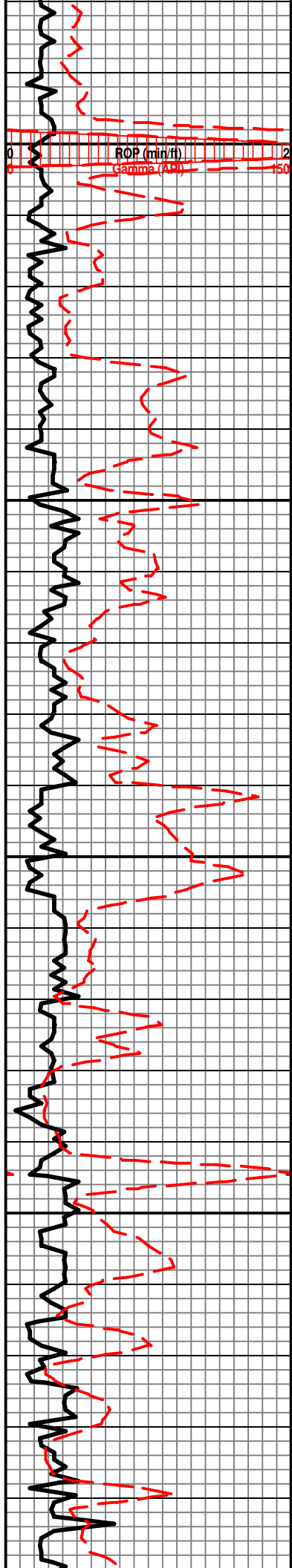
SH- SFT BLK CARB

SWOPE 4547' / -1458'

LS- GY OFF WHT TO TN, HRD DNS TO BRITT, F-XLN TO M/F TO MICRO-OOL GRNS PR/FR SORTD, V/CHLKY, DLL BLUE YEL FLO, PR/FR OOLICASTIC TO MICRO VUG POR, NO VIS CUT OR SHOW, F/ODOR

LS- CRM OFF WHT GY TN TO MOTT, HRD DNS TO BRITT, F-XLN, SUCTO TO V/CHLKY, TRS OF OOL FR SORTD IP,





TRS OF FOSS FRAGS, F/TRS OF DRK GY CHRT, PALE DLL YEL MIN FLO, POSS PR INTER-GRN POR TO MICRO-VUG IP, NO VIS CUT OR SHOW, F/ODOR

HUSH SH 4598' / -1509'

SH- SFT BLK CARB, FOSS FRAGS IP

LS- TN GY OFF WHT TO MOTT, HRD DNS TO BRITT, F/VF-XLN, SUB-CHLKY, SCATT SHADOW OOL, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, F/ODOR

SH- GY DRK GY GRN TO BLK, FRM BRITT TO SFT IP, SMTH TO GRNY, SILTY IP, CALC T CARBY, TRS FOSS FRAGS

SHLY LS- GY BRN, GRNY TXT, IMBD TO DISS GY DRK GY SH, CARBY

LS- TN GY OFF WHT TO MOTT, HRD DNS TO BRITT, F/VF-XLN, SUB-SUCRO TO CHLKY, SHLY IP, V/DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, ODOR

SH- GY DRK GY TO BLK, SMTH BLKY TO GRNY, CARB TO CALC

MRMNT 4707' / -1618'

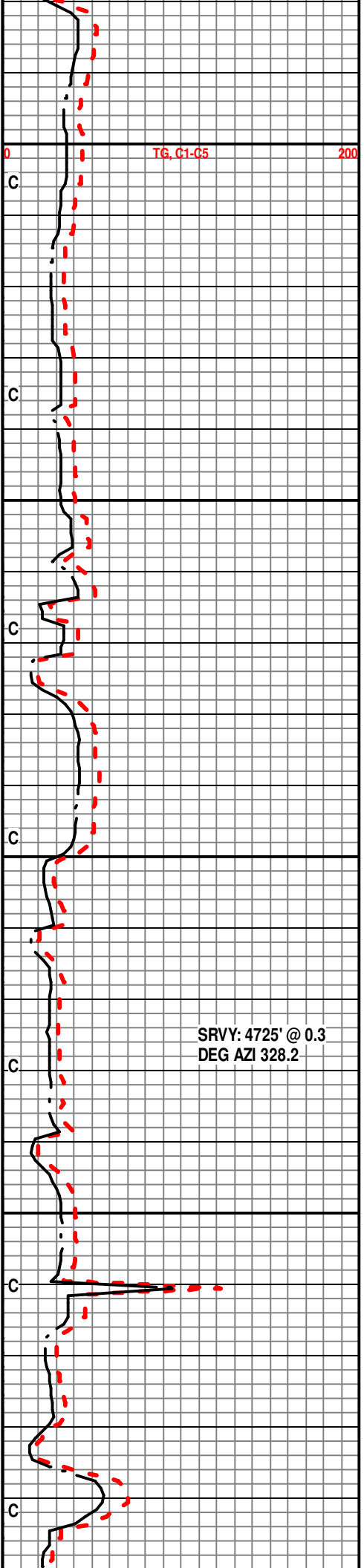
LS- GY DRK GY OFF WHT TN, HRD DNS TO BRITT, F-XLN, CHLKY, GY TN CHRT, SME SCATT OOL IP, DLL YEL MIN FLO, POSS PR MICRO-PP PR IP, NO VIS CUT OR SHOW, F/ODOR

SILTY SH- GY DRK GY BRN, FRM BRITT, GRNY, CALC IP, CARBY IP

LS- TN GY DRK GY OFF WHT TO MOTT, HRD DNS TO BRITT, F-XLN TO F/VF-OOL FR SORTD, CHLKY, GRNY TXT IP, TRS OF GY DRK GY CHRT SME W/ OOL, DLL PALE YEL MIN FLO, POSS PR OOLICASTIC POR, NO VIS CUT OR SHOW, NO ODOR

SH- GY DRK GY TO BLK, FRM BRITT, BLKY GRNY, CARBY

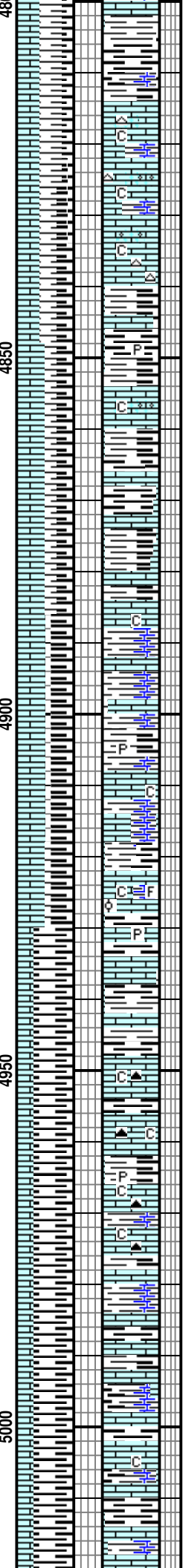
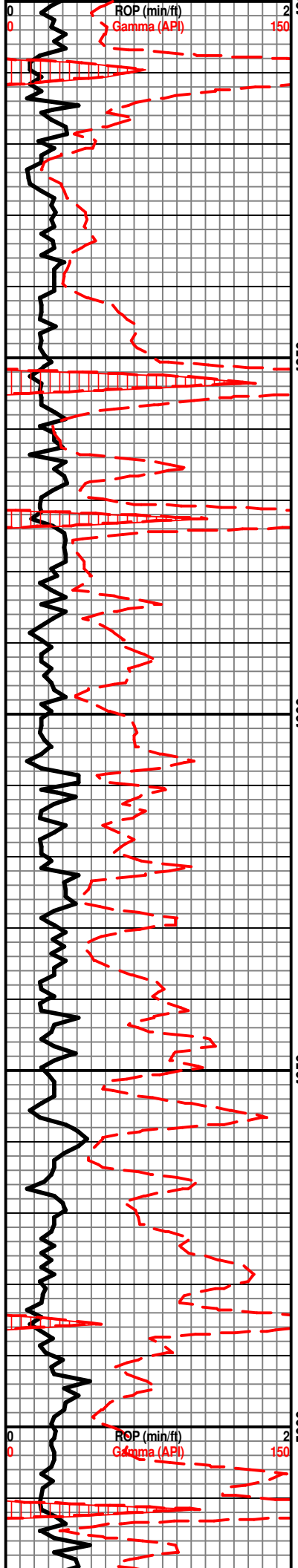
SHLY LS- GY OFF WHT TO MOTT, HRD DNS TO BRITT, F-XLN, CHLKY, FOSS FRAGS, IMBD TO DISS GY DRK GY TO BLK SH, DLL YEL MIN FLO, NO VIS



TG, C1-C5

200

SRVY: 4725' @ 0.3 DEG AZI 328.2



POR, NO VIS CUT OR SHOW

PAWNEE 4815' / -1726'

LS- OFF WHT TN GY, HRD DNS TO BRITT, F-XLN, CHLKY, TRS OF OOL SCATT SHADOW OOL, SHLY IP, TRS OF TN GY CHRT, DLL YEL MIN FLO, POSS PR MICRO-PP POR, NO VIS CUT OR SHOW, NO ODOR

SH- SFT BLK TO FRM CARBY, CALC, TRS OF PYR

LS-CRM OFF WHT TN GY TO MOTT, HRD BRITT, F/VF-XLN, SUCRO TO CHLKY, F/TRS OF OOL, TRS OF LT GY CHRT, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, NO ODOR

CHRK GRP 4874' / -1785'

SH- BLK CARB

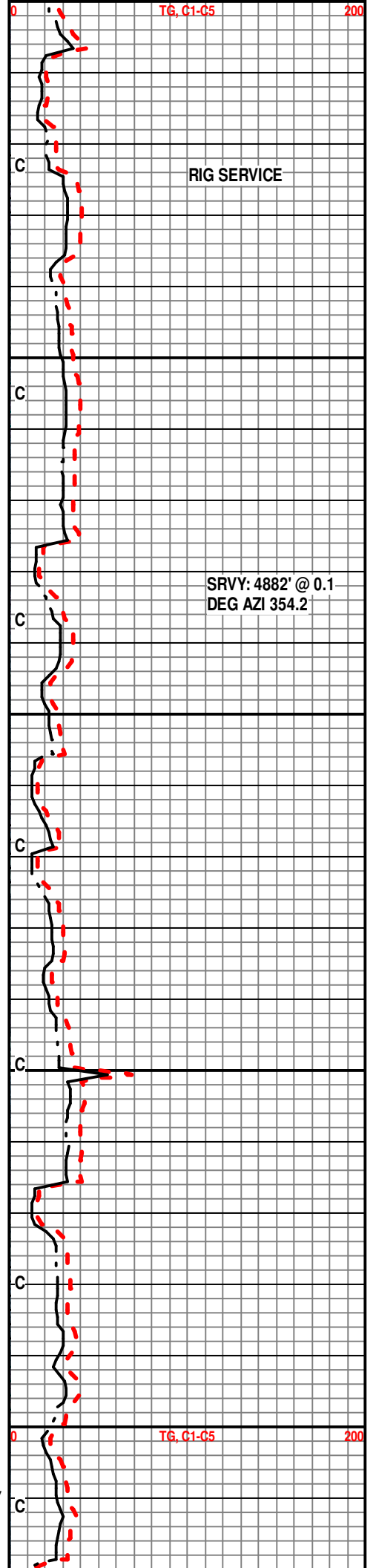
INTERBD SH & LS- SH GY DRK GY TO BLK, CARB, CALC, GRNY IP,- LS GY DRK GY TN TO MOTT, HRD BRITT, CHLKY, SPOTTY DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- GY DRK GY TN, HRD SNS TO BRITT, F-XLN, SUB-CHLKY, TRS OF FOSS FRAGS, SHLY IP DISS TO GY BLK SH, F/TRS OF SHADOW OOL SCATT, TRASHY. V/DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, NO ODOR

LS- TN DRK GY OFF WHT, HRD DNS, F/VF-XLN, SUCRO TO CHLKY, TN GY CHRT, V/DLL PALE YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

CARBY LYMY SHS- GY DRK GY BLK, GRNY, CALC, TRS OF PYR

SH- GY DRK GY BLK, FRM BRITT, BLKY TO GRNY, CALC, TRS OF PYR

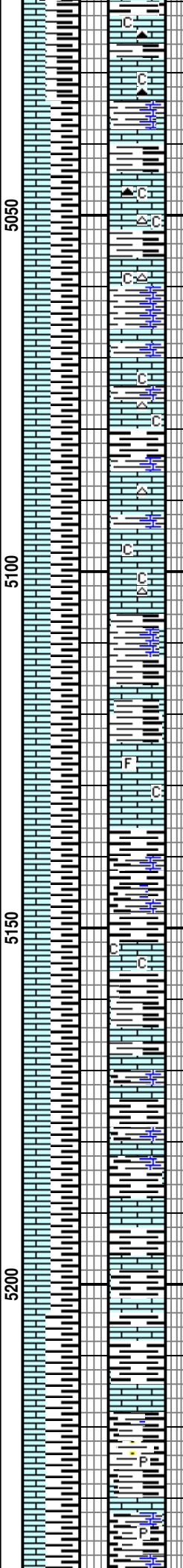
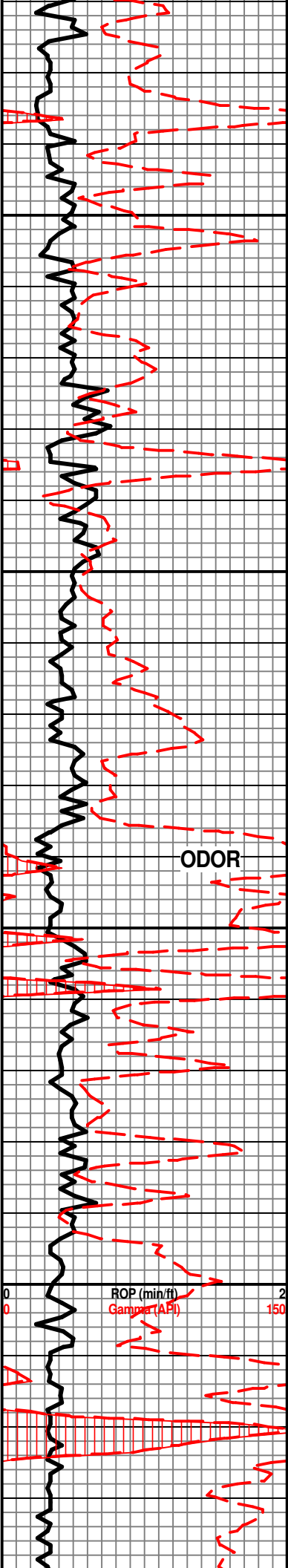


RIG SERVICE

SRVY: 4882' @ 0.1
DEG AZI 354.2

TG, C1-C5 200

TG, C1-C5 200



LS- GY DRK GY TN BRN TO MOTT, HRD
DNS TO BRITT, F-XLN, SUCRO TO
CHLKY, TRS OF TN CHRT, DLL YEL MIN
FLO, NO VIS POR, NO VIS CUT OR
SHOW

ATKN GRP 5057' / -1968'

LS- OFF WHT TN GY, HRD DNS TO
BRITT, F-XLN, CHLKY, TRS OF GY TN
CHRT, SHLY, DLL YEL MIN FLO, NO VIS
CUT OR SHOW

SH- GY DRK GY BN TO BLK, FRM
BRITT, CALC IP, CARBY

LS- TN GY OFF WHT, HRD DNS, F-XLN,
SUCRO TO CHLKY, TRS OF TN CHRT,
FOSS FRAGS, DLL YEL MIN FLO, NO
VIS POR, NO VIS CUT OR SHOW, NO
ODOR

SH- GY DRK GY TO BLK, FRM BRITT,
GRNY BLKY, CALC CARBY

LS- TN BRN GY OFF WHT, HRD DNS,
F/VF-XLN TO SLI CRYPTO-XLN, SUCRO
TO CHLKY IP, F/TRS OF FOSS FRAGS,
V/DLL MUSTRD YEL FLO, NO VIS POR,
NO VIS CUT OR SHOW

ATOKA SH 5136' / -2047'

SH- BLK CARB, FRM BRITT, TRS OF
PYR, CALC IP

LS- OFF WHT TN GY TO MOTT, HRD
BRITT, F-XLN, GRNY, SUB-SUCRO TO
CHLKY, TRS OF TN CHRT, DLL YEL MIN
FLO, NO VIS POR, NO VIS CUT OR
SHOW

SH- GY DRK GY TO BLK, CARBY

SH- GY DRK GY TO BLK, FRM BRITT,
GRNY BLKY, FOSS FRAGS, CALC IP

MRRW GRP 5210' / -2180'

SH- BLK CARB FISSLE, PYR

SH- GY DRK GY GRNISH, FRM BRITT
SFT, SILTY CALC, PYR

SH- GY DRK GY GRNISH FRM BRITT

SRVY: 5037' @ 0.1
DEG AZI 354.2
CLEAN PITS

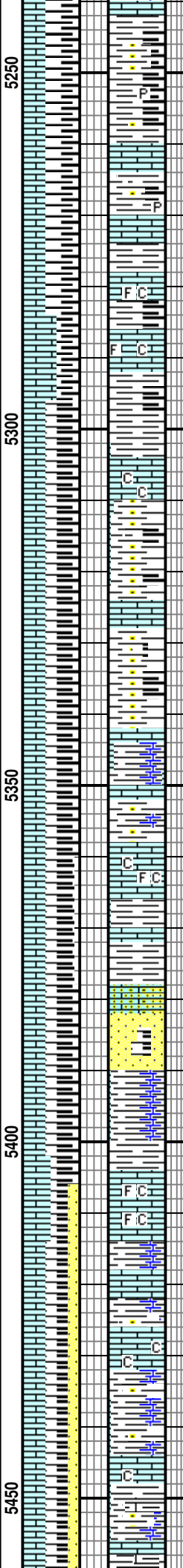
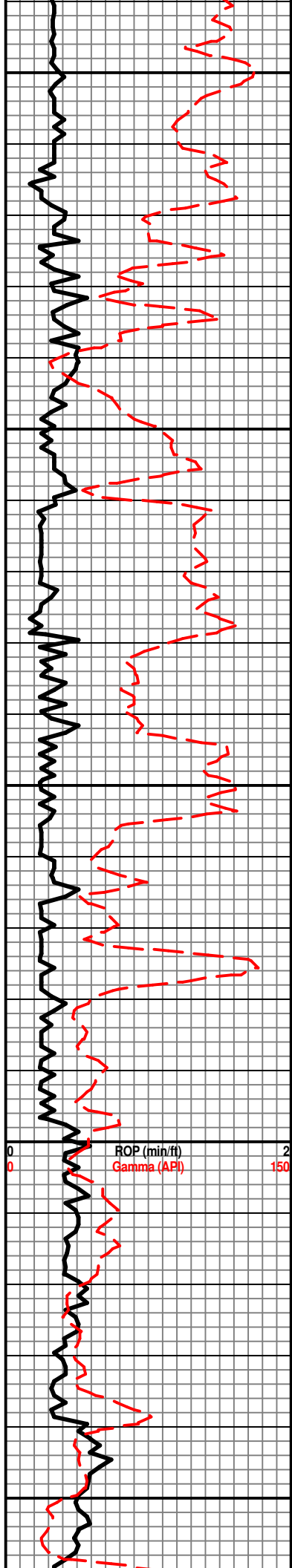
ODOR

ROP (min/ft)
Gammert (API)

SRVY: 5195' @ 0.4
DEG AZI 328.2

TG, C1-C5

200



SFT, GY DRK GY GRNISH, FRM BRIT
SFT, SILTY CALC, PYR, F/TRS OF FOSS
FRAGS

M MRRW LM 5269' / -2180'

LS- CRM GY TN TO MOTT, HRD BRIT,
F-XLN, CHLKY, FOSS FRAGS, DLL YEL
MIN FLO, NO VIS POR, NO VIS CUT OR
SHOW, NO ODOR

LS- OFF WHT TN GY TO MOTT, HRD
DNS TO BRIT, F-XLN, GRNY, CHLKY,
SILTY, FOSS FRAGS, SHLY, V/DLL YEL
MIN FLO, NO VIS POR, NO VIS CUT OR
SHOW

M MRRW SS 5310' / -2221'

LS- GY OFF WHT TN TO MOTT, HRD
BRIT, F-XLN, CHLKY, SHLY, GRNY IP,
DLL YEL MIN FLO, NO VIS POR, NO
VIS CUT OR SHOW

SH- GY DRK GY TO BLK, SILTY TO
CALC, TRS FOSS FRAGS

LS- CRM OFF WHT TN GY MOTT, HRD
BRIT, F-XLN, SNDY, CHLKY, SHLY,
ABNDT FOSS FRAGS, DLL YEL FLO IP,
POSS INTER-FOSS POR, NO VIS CUT
OR SHOW NO ODOR

U WEENU SS 5368' / -2278'

SS- TN DRK GY, TT TO SLI FRI,
F/VF-QRTZ GRNS FR/PR SORTD, RND
SUB RND, SILC TO CALC CMNT, RX TO
ACID, CONSOLID, SHLY TO IMBD CARB
SH (SPECKLES), TRS OF FOSS
FRAGS, NO VIS FLO, PR INTER-GRN
POR, FAST MILKY BLUE FLUSH TO
STREAM CUT, FR GASSY ODOR, POSS
TRS OF OIL STAINS IP, SNDY LS ON
TOP V/ DIRTY APPEARANCE
OVERALL, SME SS HAD WEAK CUTS

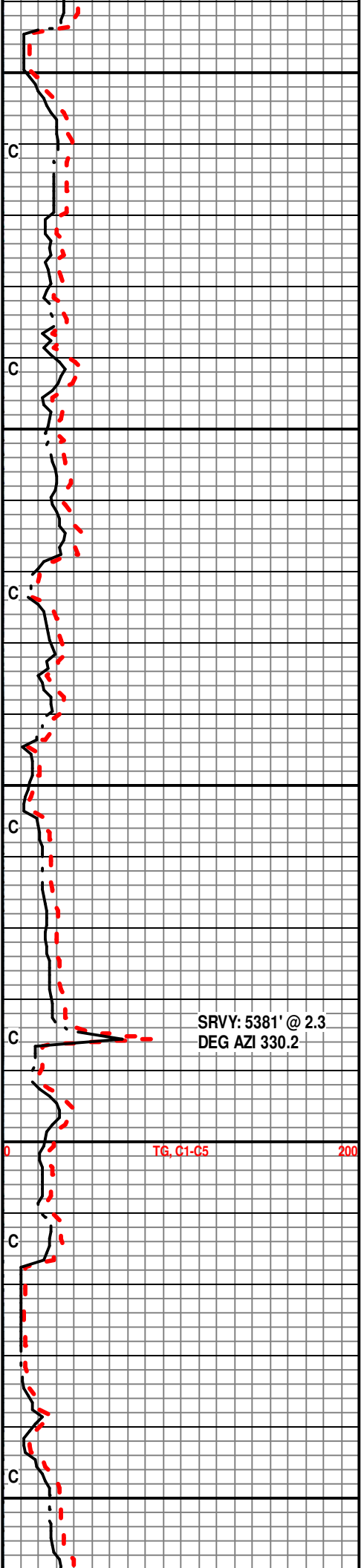
CSTR LM 5417' / -2327"

LS- TN GY OFF WHT MOTT, HRD DNS
TO BRIT, F-XLN, SUCRO TO CHLKY,
TRS OF FOSS FRAGS, DLL YEL MIN
FLO, NO VIS POR, NO VIS CUT OR
SHOW, NO ODOR

SH- GY GRNISH BRN, FRM BRIT TO
SFT, SMTH SPNTY, GRNY TO SILTY IP

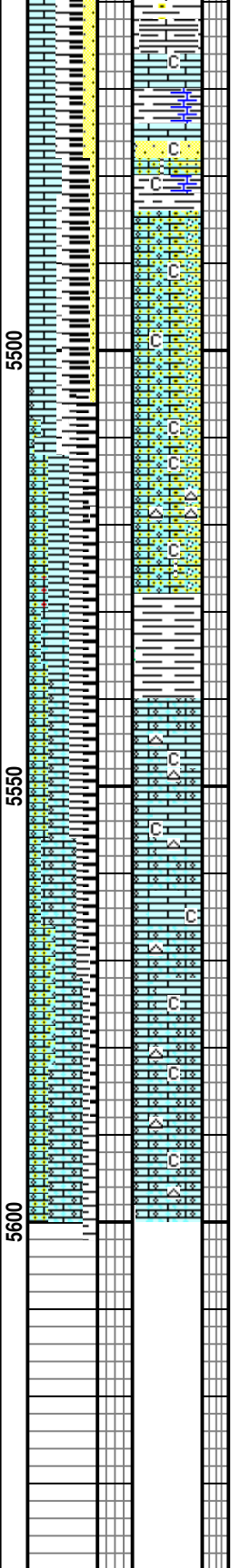
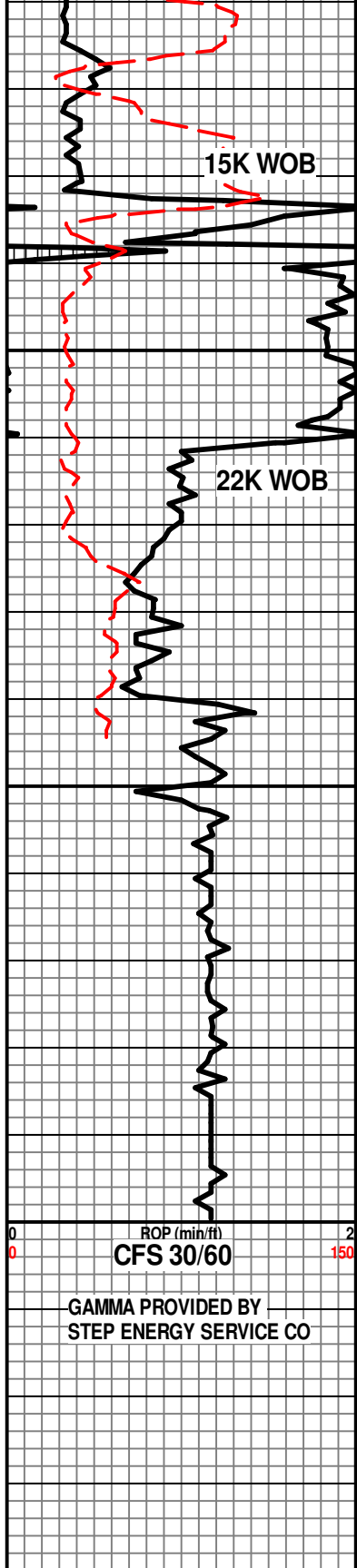
LYMY SH- GY DRK GY GRN, FRM BRIT,
SPLNTY, PYR

CSTR LM B 5460' / -2371'



SRVY: 5381' @ 2.3
DEG AZI 330.2

TG, C1-C5 200



LS- TN GY OFF WHT, HRD DNS,
 F/VF-XLN, SNDY IP, SUCRO TO SLI
 CHLKY. DLL YEL MIN FLO, POSS PR
 INTER-GRN POR, NO VIS CUT OR
 SHOW, NO ODOR, V/FEW SS
 SAMPLES AND THEY DID NOT CUT

ST GEN 5484' / -2395'
 OOL LS- CRM OFF WHT TN TO LT GY
 HRD DNS TO BRITT, VF-MICRO-OOL
 GRNS WELL SORTD, SUCRO TO
 CHLKY, PALE GLD YEL MUSTRD FLO,
 PR INTER-GRN POR, NO VIS CUT OR
 SHOW, NO DET ODOR

OOL LS- CRM OFF WHT TN TO LT GY
 HRD DNS TO BRITT, F/VF-MICRO-OOL
 GRNS W/FR SORTD, SUCRO TO
 CHLKY, TRS GY TN SEMI-OPAQ CHRT,
 DLL GLD YEL MUSTRD FLO, PR
 INTER-GRN POR, NO VIS CUT OR
 SHOW, NO DET ODOR

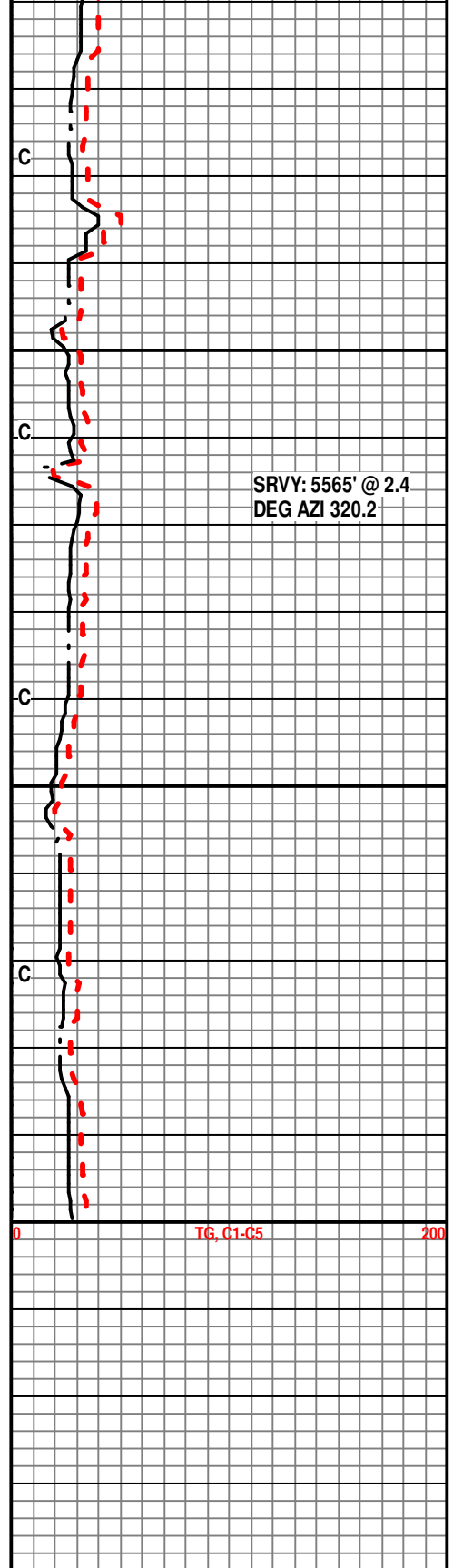
SH- GY GRN, FRM SFT, SMTH BLKY,

OOL LS- TN GY OFF WHT, HRD DNS
 BRITT, M/F-OOL GRNS PR/FR SORTD,
 40% LS/OOLSUCRO TO CHLKY, TRS
 OF GY RD/ORNG SEMI-OPAQ CHRT,
 PALE YEL/BLU FLO, POSS PR
 INTER-GRN POR IP, NO VIS CUT OR
 SHOW, NO DET ODOR

OOL LS- TN GY OFF WHT, HRD DNS
 BRITT, F/VF-OOL GRNS PR/FR SORTD,
 10% LS/OO, SUCRO TO CHLKY, TRS
 OF GY RD/ORNG SEMI-OPAQ CHRT,
 PALE YEL TO YEL/BLU FLO, POSS PR
 INTER-GRN POR IP, NO VIS CUT OR
 SHOW, NO DET ODOR

RTD 5600' @ 11:15 PM 12/17/2019
 ELOG: 5600'

**THANK YOU FOR USING
 MBC WELL LOGGING
 AUSTIN & MARLA GARNER
 TROY FOWLER**



GAMMA PROVIDED BY
 STEP ENERGY SERVICE CO

TG, C1-C5



HURRICANE SERVICES INC

Customer Merit Energy		Lease & Well # Wenu #402		Date 12/15/2019			
Service District Oakley		County & State Haskell Co., KS		Legals S/T/R 4-28s-34w			
Job Type Surface		<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD		New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No			
Job # ICT 2962		Ticket # ICT 2962					
Equipment #		Driver		Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
77	Jake H	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
266	Mike R	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
242	Joe Thomas	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
181/256	Kale	<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations		
		<input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
Comments							
1775' 8 5/8" in 12 1/4" Hole - Cement Design per L.L.							
Lead Cement: 500 sx H-Con (multi density) - increase flo-seal to 0.5# - 12.1ppg							
Tail Cement: 165 sx Class C w/2% CaCl 0.5# flo-seal - 14.8 ppg							
Product/ Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
MC10	Heavy Equipment Mileage	mi	50.00				
MC15	Light Equipment Mileage	mi	50.00				
MC20	Ton Mileage	tm	1,855.00				
CC15	Cement Pump	ea	1.00				
	Lead						
CP625	H-Con	sack	500.00				
CP120	Flo-Seal	lb	125.00				
	Tail						
CP886	Class C Cement	sack	165.00				
CP100	Calcium Chloride	lb	310.00				
CP120	Flo-Seal	lb	80.00				
FE260	8 5/8" Centralizer	ea	5.00				
FE260	8 5/8" Guide Shoe	ea	1.00				
FE271	8 5/8" Float Collar - AFU	ea	1.00				
FE265	8 5/8" Rubber Plug	ea	1.00				
Customer Section: On the following scale how would you rate Hurricane Services Inc.?				Gross:		Net: \$17,759.90	
Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely				Total Taxable \$ -		Tax Rate:	
				State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax: \$ -	
				Total: \$ 17,759.90			
				HSI Representative: <i>Jake Heard</i>			

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



HURRICANE SERVICES INC

Customer	Merit Energy	Lease & Well #	WENU 402	Date	12/19/2019
Service District	Oakley KS	County & State	Haskell KS	Legals S/T/R	4-28S-34W
Job Type	2 Stage Production <input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #	
Equipment #	Driver	Ticket #			ICT 2970

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
73	Jimmie Cottrell	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
230	Kevin	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
256	John Polley	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CG20	Cement Pump - Multi Stage	ea	1.00	\$2,125.00
MG10	Heavy Equipment Mileage	mi	192.00	\$391.00
MG15	Light Equipment Mileage	mi	192.00	\$195.50
MD03	Ton Mileage	tm	1,712.80	\$2,182.80
CP008	Type H Cement	sack	180.00	\$2,584.00
CP009	Gypsum	lb	509.00	\$513.83
CP100	Koi Seal	lb	803.00	\$510.00
CP102	Pheno Seal	lb	40.00	\$59.50
CP106	Defoamer	lb	24.00	\$224.40
CP108	Fluid Loss Additive	lb	37.00	\$370.18
CP109	Salt	sack	3.00	\$68.00
CP103	Mud Flush	gal	1,000.00	\$1,572.50
CP011	Fly Ash	sack	163.00	\$1,224.00
FE105	5 1/2" Centralizer	ea	16.00	\$765.00

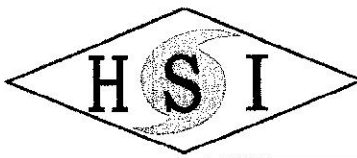
Customer Section: On the following scale how would you rate Hurricane Services Inc.? Net: \$12,785.70

Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 Unlikely Extremely Likely	Total Taxable \$ - Tax Rate:	Net: \$12,785.70
	State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	Sale Tax: \$ -

HSI Representative: *Jimmie Cottrell*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: Merit Energy	Well: WENU 402	Ticket: ICT 2970
City, State:	County: Haskell KS	Date: 12/19/2019
Field Rep: RODNEY	S-T-R: 4-28S-34W	Service: 2 Stage Production

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	5600 ft
Casing Size:	5 1/2 in
Casing Depth:	5588 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	DV TOOL
Depth:	4760 ft
Displacement:	128.5 bbls

Calculated Slurry	
Weight:	13.6 # / sx
Water / Sx:	gal / sx
Yield:	1.57 ft ³ / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	89.5 bbls
Total Sacks:	320 sx

Product	% / #	#
Class H	50.00	
Poz	50.00	
Gel		
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		
Total		-

TIME	RATE	PSI	BBLs	REMARKS
930P				ON LOCATION
935P				SAFETY MEETING
945P				GET WITH CO MAN GET THE FOLLOWING INFORMATION 5 1/2 17# CASING SET AT 5588 FT TD IS 5600 FT SHOE JOINT 46
				DV TOOL 4760 FT
430A				CASING ON BOTTOM
500A				CIRCULATE CASING
505A				RIG UP
535A	4.0	400.0	5.0	H2O AHEAD
537A	4.0	400.0	12.0	MUD FLUSH
540A	4.0	360.0	5.0	H2O SPACER
542A	5.2	220.0	36.4	CEMENT 130 SKS CLASS H 50/50 POZ
550A				DROP PLUG / WASH UP
600A	4.2	380.0	25.0	DISPLACE H2O
606A	6.6	540.0	25.0	DISPLACE MUD
610A	6.6	540.0	25.0	DISPLACE MUD
615A	6.6	540.0	25.0	DISPLACE MUD
619A	3.5	430.0	28.0	DISPLACE MUD
630A		800.0		PLUG LANDED
635A				RELEASE FLOATS HELD
640A				DROP BOMB
				WAIT 30 MINS
710A	3.3	900.0	10.0	OPEN TOOL
				CIRCULATE 4 HRS

CREW		UNIT	SUMMARY		
Cementor:	Jimmie Cottrell	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Kevin	230	4.8 bpm	501 psi	196 bbls
Bulk #1:	John Polley	256			
Bulk #2:					



CEMENT TREATMENT REPORT

Customer: Merit Energy	Well: WENU 402	Ticket: ICT 2970
City, State:	County: Haskell	Date: 12/19/2019
Field Rep: Rodney	S-T-R: 4-28S-34W	Service: 2 STAGE PRODUCTION

Downhole Information	
Hole Size:	in
Hole Depth:	ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	bbls

Calculated Slurry	
Weight:	13.6 # / sx
Water / Sx:	gal / sx
Yield:	1.57 ft ³ / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	53.1 bbls
Total Sacks:	190 sx

Product	% / #	#
Class H	50.00	
Poz	50.00	
Gel		
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		
Total		-

TIME	RATE	PSI	BBLs	REMARKS
				2ND STAGE
1045A	4.0	320.0	5.0	H2O AHEAD
1047A	4.0	300.0	12.0	MUD FLUSH
1050A	4.0	300.0	5.0	H2O SPACER
1052A	4.5	210.0	39.1	CEMENT 190 SKS CLASS H 50/50 POZ
			14.0	PLUG MOUSE HOLE & RATHOLE WITH 50 SKS
1110A				DROP PLUG
1113A	5.0	110.0	25.0	DISPLACE H2O
1118A	5.0	130.0	25.0	DISPLACE H2O
1123A	5.0	160.0	25.0	DISPLACE H2O
1128A	5.0	640.0	25.0	DISPLACE H2O
1133A	3.0	770.0	10.5	DISPLACE H2O
1143A		1,500.0		PLUG LANDED
1145A				RELEASE
1147A				SHUT IN
1150A				WASH UP
1200A				RIG DOWN
1230A				LEFT LOCATION

CREW			UNIT			SUMMARY		
Cementer:	Jimmie Cottrell		73			Average Rate	Average Pressure	Total Fluid
Pump Operator:	Kevin		230			4.38889 bpm	444 psi	186 bbls
Bulk #1:	John Polley		256					
Bulk #2:								